Analysis Instrument Professional Manufacturer

Analytical Instrument of Oil Product

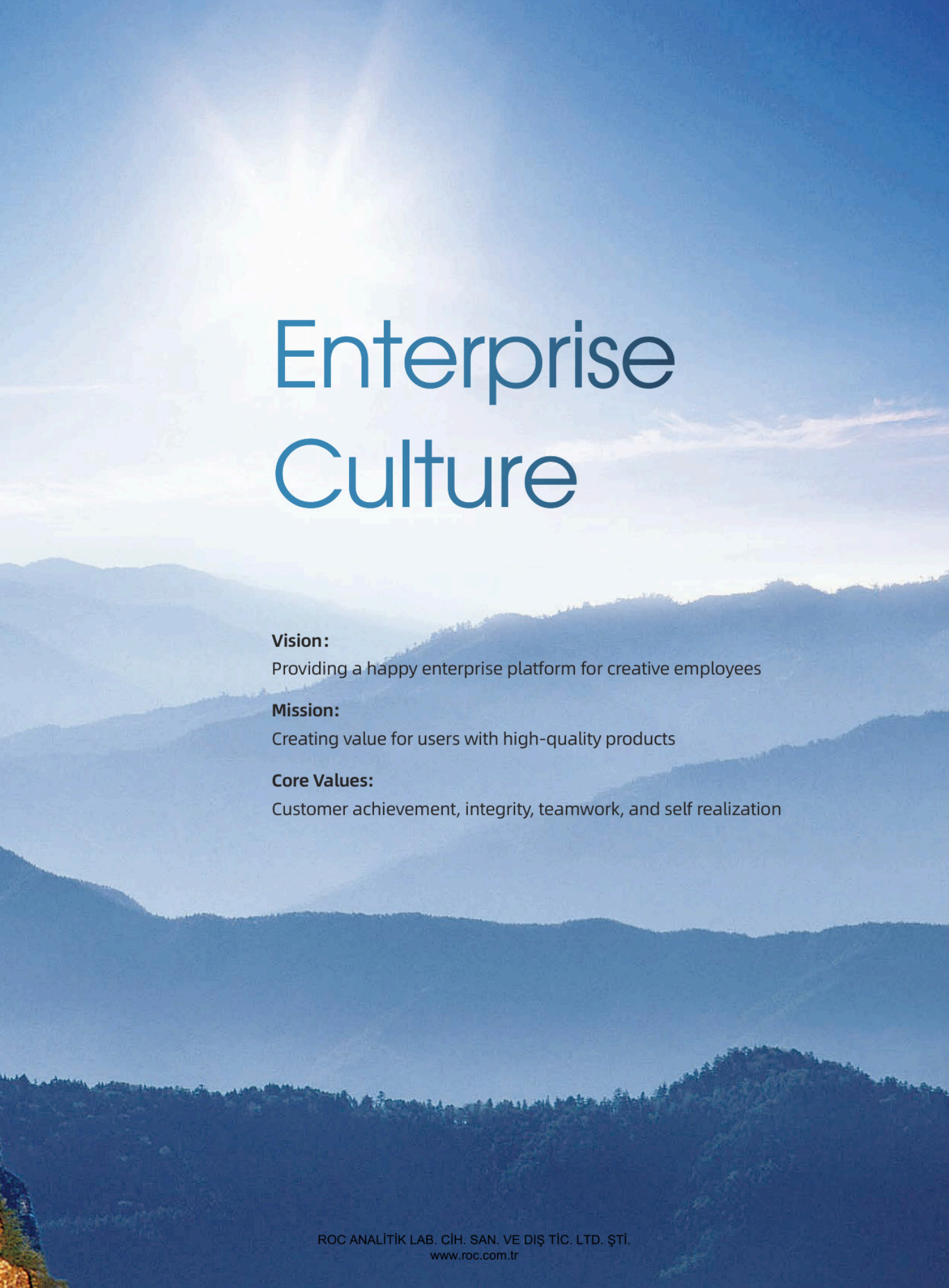


TIMEPOWER

TIMEPOWER Analytical Instruments (Beijing) Co., Ltd.

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Enterprise Culture

Vision:

Providing a happy enterprise platform for creative employees

Mission:

Creating value for users with high-quality products

Core Values:

Customer achievement, integrity, teamwork, and self realization



Beijing headquarter

COMPANY PROFILE

TIMEPOWER Analytical Instruments (Beijing) Co., Ltd. was founded in 2007. It is a national high-tech enterprise that has long focused on the research and development, production, sales, and service of water quality and oil analysis instruments.

The company takes "customer achievement, integrity, teamwork, and self realization" as its core values, and strives to create innovative technologies, high-quality products, and warm services. Adhere to the mission of "creating value for users with high-quality products", carry out independent innovation and talent cultivation, set the vision of "providing a happy enterprise platform for creative employees", and gradually grow into a domestic manufacturer of standardized water quality and oil analysis instruments.



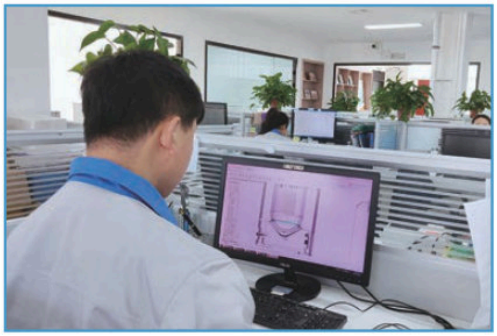


Production base

At present, the company's product line includes various products such as online water quality monitoring instruments, laboratory water quality analysis instruments, laboratory oil analysis instruments, and provides instrument hosting, maintenance, and optimization solutions. It can provide complete solutions for instruments and analysis to the power industry, petrochemical industry, steel metallurgy, environmental protection industry, research institutes, and other fields.

The Hebei production base covers an area of approximately 5000 square meters and has a qualified production and research and development base, modern standard factory buildings, as well as imported production equipment and complete related testing instruments and equipment, which effectively guarantees to provide users with products with exquisite appearance, fine workmanship, and reliable quality.

Establish effective quality assurance in accordance with ISO 9001:2015 Quality Management System Certification Standard, ISO 14001:2015 Environmental Management System Certification Standard, and OHSAS 18001:2007 Occupational Health and Safety Management System Certification Standard. Obtained multiple intellectual property certificates, including national utility model patents, design patents, and computer software copyrights.







APTITUDE HONOR



Typical users of export projects

Central Laboratory in Ulaanbaatar, Mongolia
Philippine Eagle Cement Waste Heat Power Generation
Mamba Cement Company Limited, South Africa
Botswana Power Plant Project
Angola SK Power Transmission and Transformation Project
East Timor Comoros Diesel Power Plant Project
Vietnam Thang Long 330MW Thermal Power Plant Project
JSW Steel DCPL 3 million tonnes in India

Typical users of export projects

Huaneng International Power Generation Co., Ltd.
National Energy Group Jianbi Power Plant
Datang Chifeng Saihanba Wind Power Generation Co., Ltd.
Datang Jixi Co-generation Power Co., Ltd.
Datang Taiyuan No.2 Thermal Power Plant
Shaanxi Datang Xinneng Electric Power Design Co., Ltd.
Anhui Huadian Lu'an Power Generation Co., Ltd.
China Resources Power (Cangzhou Yundong) Co., Ltd.
Hebei Jianto Xuanhua Thermal Power Co., Ltd.
Gansu Diantou Changle Power Generation Co., Ltd.
Linyi Hengtai New Energy Co., Ltd.
Shaanxi Yulin Energy Group Hengshan Coal Power Co., Ltd.

Typical users in the steel industry

Hebei Anfeng Iron and Steel Group Co., Ltd.
Hebei Huaxin Special Steel Co., Ltd.
Jingye Iron and Steel Co., Ltd.
Hebei Xinda Iron and Steel Group Co., Ltd.
Hebei Yanshan Iron and Steel Group Co., Ltd.
Tangshan Donghai Iron and Steel Group Co., Ltd.
Tangshan DELONG Steel Co., Ltd.
Qinhuangdao Hongxing Steel Group Co., Ltd.
Tianjin Iron and Steel Group Co., Ltd.
Heilongjiang Jianlong Iron and Steel Co., Ltd.
Jilin Jingang Lron and Steel Co., Ltd.
Shandong Luli Steel Co., Ltd.
Gansu Jiu Steel Group Hongxing Iron and Steel Co., Ltd.
Guangxi Guigang Iron and Steel Group Co., Ltd.

Typical users in the higher education industry

Peking University
Tsinghua University
Beihang University
Beijing University of Chemical Technology
China University of Petroleum, Beijing
Hebei University of Technology

Typical users in the petrochemical industry

China National Petroleum Corporation Qinghai Oilfield Branch
Daqing Chemical Research Center of China National Petroleum Corporation
China National Petroleum Corporation Daqing Refining and Chemical Branch
China National Petroleum Corporation Changqing Petrochemical Branch
China Petroleum Pipeline Research Institute Co., Ltd.
China National Petroleum Corporation Liaohe Oilfield Branch
China Petroleum and Chemical Corporation Baling Branch
China Petroleum and Chemical Co., Ltd., QILU Branch
Shaanxi Jintai Chemical Shenmu Calcium Carbide Co., Ltd.
CNOOC (China) Tianjin Branch

Typical users in scientific research institutes

National Energy Group Science and Technology Research Institute Co., Ltd.
China Datang Group Science and Technology Research Institute Co., Ltd.
North China Electric Power Test and Research Institute
Northwest Electric Power Test and Research Institute of China Datang Group Science and Technology Research Institute Co., Ltd.
Beijing Chemical Research Institute of China Petroleum and Chemical Corporation Limited
Shandong Special Equipment Inspection and Research Institute Group Co., Ltd.
Dalian Special Equipment Inspection and Testing Research Institute Co., Ltd.

TYPICAL CASES

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TP101 Gas Chromatograph

The gas chromatograph is designed and manufactured according to GB/T17623-2017 Determination of Component Contents of Gases Dissolved in Insulating Oil by Gas Chromatography Method, DL/T703-2015 Determination of Dissolved Gas Content in Insulating Oil by Gas Chromatography, GB/T 7252-2001 Guide for the Analysis and the diagnosis of Gases Dissolved in Transformer Oil. The component content of dissolved gas in insulating oil is an effective means to determine whether there are latent overheating, discharge and other faults in oil-filled electric equipment in operation to ensure the safe and effective operation of power grid. It is also a necessary means for oil-filled electric equipment manufacturers to conduct factory inspection on their equipment. It is widely used in the determination of the gas content of insulating oil in the petrochemical industry, power generation, power supply plants, research institutes, etc.

Functional features

- The workstation of the instrument is suitable for WinXP, Win2000, Win7, Win8, Win10 and other operating systems
- The instrument adopts multi-processor parallel working mode, which makes the instrument more stable and reliable. The instrument adopts modular structure design, which is simple and convenient for maintenance in the later stage

Technical parameters

Display	8-inch color LCD touch screen
Temperature control range	4℃ ~ 450℃ above room temperature, increment: 1 ℃ , Precision: ± 0. 1 ℃
Detection range	H_2: 2.0 ~ 20000ppm CH_4: 0.1 ~ 10000ppm C_2H_4: 0.1 ~ 10000ppm C_2H_6: 0.06 ~ 10000ppm C_2H_2: 0.1 ~ 5000ppm CO: 1.0 ~ 10000ppm CO_2: 1.0 ~ 20000ppm
Detection accuracy	⩽ 3%
Minimum detection limit	H_2: ⩽ 2.0ppm CH_4: ⩽ 0.1ppm C_2H_4: ⩽ 0.1ppm C_2H_6: ⩽ 0.06ppm C_2H_2: ⩽ 0.1ppm CO: ⩽ 1.0ppm CO_2: ⩽ 1.0ppm
Power supply	220V ± 10% (50Hz ± 0.5Hz) ⩾ 2500W



TP526 Solidification Point and Pour Point Tester

The solidification point and pour point tester conforms to GB/T 510, ASTMD2386 standards and is suitable for determining the solidification point and pour point of lubricating oils and dark petroleum products. There is no restriction on the size of the viscosity and it is more widely applicable. The tester can be used in electric power, petroleum, chemical industry, commodity inspection, scientific research and other departments.

Functional features

- Automatic detection, good repeatability, printable results
- Automatic tilt during detection, fully compliant with standards
- The test method is optional, and it can be detected quickly or normally
- It has fault diagnosis function and can prompt operation
- Refrigeration speed and testing standards can be compiled according to customer requirements
- High performance compressor refrigeration for long service life
- Provide manual and automatic integrated test solutions, flexible and simple

Technical parameters

Temperature control range	35℃ ~ -70℃
Solidification point range	Light oil in the range of 5 ℃ ~-70 ℃
Resolution	0.1 ℃
Temperature control accuracy	± 0.1℃
Number of experimental holes	1 hole
Refrigeration system	Two-stage refrigeration
Test method	Standard mode, fast mode, manual mode
Power supply	AC220V ± 10% 50Hz ± 10%



TP532 Acid Value Tester

Fully automatic acid value tester is suitable for determining insulating oil (transformer oil), turbine oil, hydraulic oil, lubricating oil, etc.; It is used in electric power, petroleum, chemical industry, universities and other fields.

Functional features

- 8-roller high-precision peristaltic pump, stable and accurate titration
- Automatic fast titration function can effectively shorten the measurement time of high acid value samples on the premise of ensuring measurement accuracy
- Built-in KOH concentration calibration, titration volume calibration, blank calibration, light inspection calibration, screen-off protection and other functions
- 6-channel individual control, can be set up for different samples acid value, quality
- High intensity magnetic stirring with adjustable stirring speed
- Micro diffuse reflection photoelectric sensor for experimental cup identification, which can accurately and effectively avoid abnormal titration

Technical parameters

Measurement method	Neutralization method
Measurement range	0.0001 ~ 1.0000 mgKOH/g
Resolution	0.0001 mgKOH/g
Accuracy	When < 0.1000 mgKOH/g, the indication error ⩽ 0.01 mgKOH/g; When ⩾ 0. 1000 mgKOH/g, the indication error ⩽ 0. 05 mgKOH/g
Repeatability	When < 0.1000 mgKOH/g, the repeatability error is ⩽ 0.01 mgKOH/g When ⩾ 0.1000 mgKOH/g, the repeatability error is ⩽ 0.05 mgKOH/g
Number of measuring cups	6 cups
Communication port	RS485, RS232
Communication protocol	ModBus RTU
Power supply voltage	AC220V ± 10% 50Hz ± 10%
Print	Thermal printing



TP553 Trace Moisture Tester

Fully automatic trace moisture tester is suitable for GB/T7600-1987 Determination of water content in transformer oils in service by coulometric method, SH/T0255-1992 Determination of water content in Additives and Lubricating Oils Containing Additives by electricity method, SH/T0246-1992 Determination of water content in light petroleum products by electricity method, accurately determines trace moisture in liquids, solids, and gases, and is used in electric power, petroleum, chemical, pharmaceutical, food and other industries. It can quickly determine the moisture content of alcohols, oils, lipids, ethers, esters, acids, alkanes, benzenes, amines, organic solvents, pesticides, phenols, pharmaceutical raw materials and other chemical, petroleum, pharmaceutical, pesticide and other products.

Functional features

- The switching constant current source electrolysis circuit is used to reduce the power consumption of the instrument
- Two methods of reagent blank current compensation and equilibrium point drift compensation were used to correct the measurement results
- Built-in 9 calculation formulas can meet the calculation of moisture content under different measurement conditions
- Convert mg/L, ppm, mg/kg, % separately or simultaneously to reduce the number of measurements and reagent consumption
- Sample volume, mass and density can be adjusted during or after the test

9-speed stirring speed adjustment; 9-speed electrolytic gain adjustment

- It has the function of automatically detecting and recording for open circuit fault and short circuit fault of measuring electrode

Technical parameters

Measurement range	3μg ~ 100mg
Instrument accuracy	3μg ~ 1mg ± 3μg; 0.3% for more than 1mg (excluding injection error)
Resolution	0.1 μg
Electrolytic current	0 ~ 400 mA
Maximum electrolytic speed	2.4 mg/min
Communication port	RS485, RS232
Communication protocol	ModBus RTU
Power supply voltage	AC220V ± 10% 50Hz ± 10%

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TP572 Dielectric Strength Tester

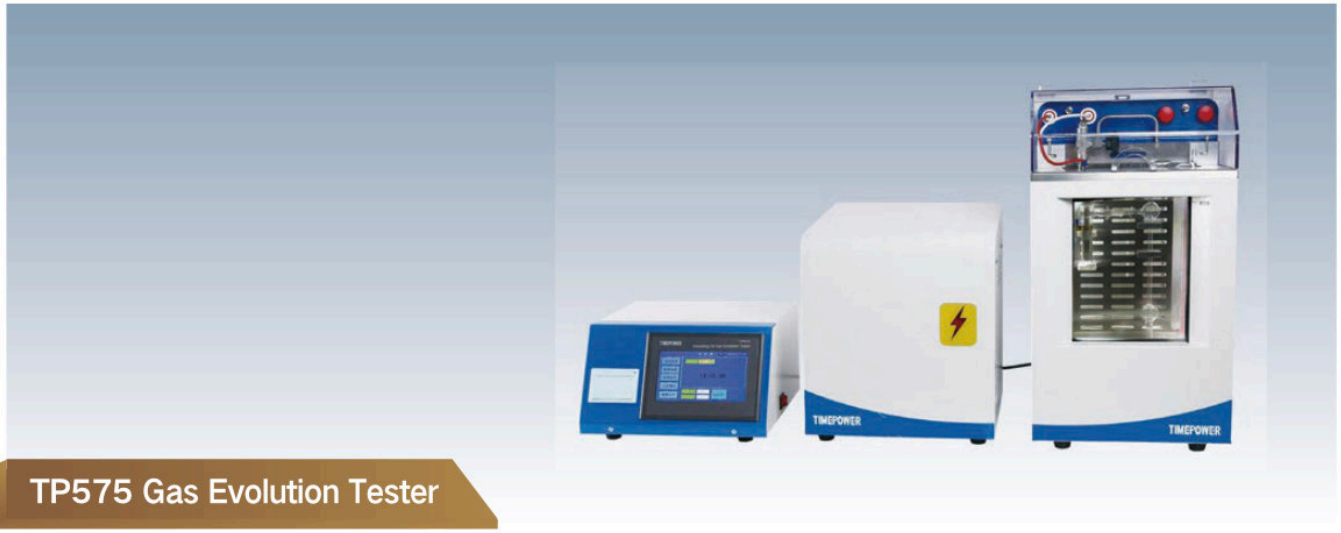
Insulating oil dielectric strength tester is developed according to GB/T 507-2002, DL/T 429, DL/T 846 standards. It is widely used in electric power, petroleum, chemical and other industries, and in high-voltage electrical equipment such as transformers, oil circuit breakers, oil-filled cables, power capacitors and oil bushings; During operation, the performance of insulating oil will gradually deteriorate due to the effects of oxygen, high temperature, high humidity, sunlight, strong electric field and impurities, so that it cannot fully play its insulating role, so that the insulating oil must be tested regularly to identify whether the performance has deteriorated. Therefore, the quality of insulating oil is closely related to the breakdown voltage.

Functional features

- The instrument adopts dual CPU microcomputer control
- A series of operations such as boost, zero return, stirring, display, calculation, printing, etc. are automatically completed
- Equipped with over-voltage, over-current and automatic zero-return protection devices to ensure safety and reliability
- Automatic sine wave generating device and stepless voltage regulating mode are used to pressurize, so that the test voltage is more stable and reliable
- Two pressurization speeds of 2 KV/S and 3 KV/S are available for more adaptability

Technical parameters

Measurement range	(0 ~ 80) kV or (0 ~ 100) kV
Resolution	0.1 kV
Measurement accuracy	± 2%
Number of test cups	1 cup
Number of tests	6 times (1 ~ 9 times adjustable)
Boost speed	2.5 kV/s (0.5 ~ 5.0 kV/s adjustable)
Standing time	15 minutes (0 ~ 15 minutes adjustable)
Boost interval	5 minutes (0 ~ 5 minutes adjustable)
Stirring time	10 s (0 ~ 120 s adjustable or continuous)
Booster capacity	1.5 kVA
Stirring mode	Magnetic stirring
Power supply voltage	AC 220V ± 10% 50Hz ± 10%



TP575 Gas Evolution Tester

The gas evolution tester is designed and manufactured according to the requirements specified in GB/T11142-89 Insulating oil-Determination of gassing under electric stress and ionization and NB/SH/T0810-2010 Insulating oil-Determination of gassing under electric stress and ionization. It is widely used in petro-chemical, electric power, railway, scientific research and other departments, and is an indispensable equipment for oil analysis and quality inspection.

Functional features

- Different standards are integrated into one, and customer selectivity is high
- With safety protection switch, the instrument is safe and reliable to use
- Electronic flowmeter is adopted, the replacement standard does not need to be adjusted artificially
- Automatically store 1000 test results, so view or print at any time
- There are external status indicator lights and prompt sounds to prompt the operator in real time
- Imported temperature control module, high-precision temperature control

Technical parameters

Hydrogen intake pressure	0.05 ~ 0.1 MPa
Constant temperature	80℃ ±0.05℃ (adjustable range is room temperature ~ 100℃)
Resolution	0.01℃
Test voltage	10 kV±0.2 kV
Resolution	0.01 kV
Time measurement	5 min, 10 min, 50 min, 120 min (automatic conversion according to standard)
Timing error	<±0.1 s
Power supply voltage	AC220V±10% 50Hz±10%

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TP582 Copper Strip Corrosion Tester

Copper strip corrosion tester conforms to GB/T 5096, GB/T 7326, ASTM D4048, SH/T 0232, SH/T0023, ISO 6251, ASTM D130, and is suitable for determining the degree of corrosion of copper strip by aviation gasoline, jet fuel, automotive gasoline, or other hydrocarbons with a Reid vapor pressure not greater than 124 kPa (930 mm Hg), solvent oils, diesel oils, distillate fuel oils, lubricating oils, greases and other petroleum products.

Functional features

- The test bath is an oil bath with precise temperature control
- Copper strip corrosion test time can be set and alarmed
- Adopt PID temperature control technology

Technical parameters

Temperature control range	Room temperature ~ 150℃ arbitrary setting
Temperature control accuracy	±0.1℃
Heating power	1500 W
Time control range	1 minute ~ 24 hours arbitrary setting
Time display	LED digital display
Sample holes	4 holes
Number of measurement samples	4 ~ 12
Temperature sensor	Industrial platinum resistor with indexing number Pt100
Working power supply	AC 220V±10% 50Hz±10%



TP611 Closed-cup Flash Point Tester

Fully automatic closed-cup flash point tester is designed and manufactured according to the requirements specified in GB/T261 Determination of Flash Point-Pensky-Martens Closed Cup Method, ASTM D92 Standard Test Methods for Flash Point by Pensky-Martens Closed Cup Tester, ISO 2592 Determination of Flash Point-Pensky-Martens Closed Cup Method Pensky Martens Closed Cup Method ". It is used to test the closed flash point temperature of oil products and the hazard level of oil products, and is widely used in electric power, petroleum, chemical industry, commodity inspection and scientific research departments.

Functional features

- Lifting, temperature control, ignition, detection, printing, cooling, etc. are carried out automatically
- Standard atmospheric pressure calibration function
- If the temperature is exceeded, the heating is automatically stopped
- The unique ignition design allows the user to switch to gas flame scanning or electronic flame scanning mode according to requirements
- Imported Pt100 temperature sensor, stainless steel housing

Technical parameters

Display	480 × 272 touch dot matrix color LCD
Temperature measurement range	40 ~ 370℃
Resolution	0.1℃
Accuracy	±1℃ when the flash point is<110℃ ; ±2℃ when the flash point is ⩾ 110℃
Repeatability	⩽ 4℃
Reproducibility	⩽ 8℃
Heating speed	A: (5 ~ 6)℃ /min; B: (1 ~ 1.5)℃ /min; C: (2.5 ~ 3.5)℃ /min
Stirring speed	A/C: (90 ~ 120) rpm; B: (250 ± 10) rpm
Ignition method	Electronic ignition and gas flame
Cooling method	Built-in powerful air cooling
Working power supply	AC 220V ± 10% 50Hz ± 10%
Printer	Thermal type, 36-character
Communication	RS232



TP612 Open-cup Flash Point Tester

Fully automatic open flash point tester is designed and manufactured according to the requirements specified in GB/T3536 Ignition Point of Petroleum Products-Determination of Flash Point-Cleveland Open Cup Method, ASTM D92 Standard Test Method for Flash and Fire Points by Cleveland Open Cup, ISO 2592 Petroleum and Related Products-Determination of Flash and Fire Points-Open Cup. It is used to test the Open-cup flash point temperature of oil products and the hazard level of oil products, and is widely used in electric power, petroleum, chemical industry, commodity inspection and scientific research departments.

Functional features

- Lifting, temperature control, ignition, detection, printing, cooling, etc. are carried out automatically
- High-precision ionization ring detection method
- Standard atmospheric pressure calibration function
- If the temperature is exceeded, the heating is automatically stopped
- The unique ignition design allows the user to switch to gas flame scanning or electronic flame scanning mode according to requirements

Technical parameters

Display	480 × 272 touch dot matrix LCD
Temperature measurement range	79 ~ 370℃
Resolution	0.1℃
Accuracy	± 2℃
Repeatability	⩽ 4℃
Heating speed	In accordance with GB/T 3536 standard
Ignition method	Electronic ignition, gas flame
Cooling method	Built-in powerful air cooling
Working power supply	AC 220V ± 10% 50Hz ± 10%
Communication	RS232



TP622 Insulating Oil Oxidation Stability Tester

The insulating oil oxidation stability tester is developed according to the standards of NB/SH/T0811 Unused hydrocarbon-based insulating liquids——Test method for evaluating the oxidation stability and SH/T0206 Determination of oxidation stability for transformer oil. It is suitable for metal bath structure, no need to add water to replenish water during the test, clean, pollution-free, environmental protection and energy-saving, and easy to use. This instrument is the preferred automated instrument of testing the oxidation stability of insulating oil for transformer oil production and use units, relevant universities, scientific research departments, etc.

Functional features

- Adopting metal-bath heating, no need to refuel, energy saving and environmental protection, and easy to use
- PID control can quickly maintain stability after reaching the target temperature, saving waiting time
- Built-in over-temperature protection device, more reliable and safer to use
- Equipped with soap bubble flow meter to accurately detect gas flow
- Equipped with a timer for automatic timing

Technical parameters

Temperature control method	The digital display temperature control meter automatically controls the temperature
Temperature control range	Room temperature ~ 160℃
Temperature control accuracy	Set temperature ±0.5℃
Temperature measuring element	Thermal resistance
Number of samples	6 channels, 6 samples can be made at the same time
Working power supply	AC 220V±10% 50Hz±10%



TP625 Kinematic Viscosity Tester

The kinematic viscosity tester is designed and manufactured according to the requirements specified in GB/T265 Petroleum products——Determination of kinematic viscosity and calculation of dynamic viscosity. The instrument measures the kinematic viscosity of transparent and opaque liquids including crude oil, light and heavy fuel oil, lubricating oil, additives and waste oil. It is used in electric power, petroleum, chemical industry, commodity inspection, scientific research and other sectors.

Functional features

- PI temperature control technology, high temperature control accuracy
- Imported temperature sensor, sensitive response
- Equipped with light illumination for easy observation of data
- Optional refrigeration equipment, test viscosity at 20℃
- The test results can be stored, and the test data can be printed with an optional printer

Technical parameters

Temperature control range	0 ~ 120℃ (0 ~ room temperature requires additional refrigerator TP501)
Temperature control accuracy	±0.05℃
Resolution	0.01℃
Test hole	4 holes
Heating power	1500 W
Power consumption of the whole machine	⩽ 1600 W
Stirring speed	1200±12 r/min
Working power supply	AC220V±10%　50Hz±10%



TP631 Volume Resistivity Tester

Volume resistivity tester is developed according to DL/T421-1991 *Determination of volume resistivity of power oil standard*. It is used to test the volume resistivity of insulating oil and anti-fuel oil in electric power, petroleum, chemical industry, commodity inspection and scientific research departments.

Functional features

- Adopting MCU measurement and control unit, with high measurement accuracy and good repeatability
- High precision temperature control for tests at 20℃ and 90℃
- Standard mode measurement and customized mode measurement for user-friendly use
- Inspection results are automatically stored and can be viewed or printed at any time
- The instrument can test three samples at the same time, improving work efficiency
- The instrument comes with a self-test function, which can judge the reliability of the instrument's measurement results
- The built-in data analysis system can automatically determine the sample grade according to the standard

Technical parameters

Measurement range	(2.5×10^{5} ~ 2.5×10^{13}) Ωm
Temperature control range	(15 ~ 100)℃
Minimum refrigeration temperature	Not greater than ambient temperature -10℃
Temperature control accuracy	±0.3℃
Power	1000 W
Measuring voltage	DC500V
Operating voltage	AC 220V±10% 50HZ±10%
Measurement mode	Standard mode measurement, Custom mode measurement

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TP632 Fully Automatic Acid Value Tester

The automatic acid number tester is designed and manufactured according to the requirements specified in GB/T 7304 *Standard test method for acid number of petroleum product by potentiometric titration.* It is suitable for determining insulating oil (transformer oil), turbine oil, hydraulic oil, lubricating oil, etc.; It is widely used in electric power, petroleum, chemical industry, universities and other fields.

Functional features

- Advanced single-chip microcomputer technology, high performance and low power consumption
- Organically combined with automatic cleaning, automatic liquid replenishment, fixed value liquid addition, mechanical and electrical together
- Multi-parameter setting and correction makes the analysis of different kinds of samples simple and quick, shorter analysis time, and more accurate results
- The double high-impedance input and three-electrode system are used for research, and the electrode potential is more stable and reliable

Technical parameters

Measurement range	Greater than 0.005 mgKOH/g
Acid number resolution	0.001 mgKOH/g
Potential measurement range	(0 ~ ±1999.9) mV
Basic error of electronic unit	0.1% ± 0.5 mV of full reading
Input impedance	Ri ⩾ 1×10^{12} Ω
Burette volume	10 ml
Minimum feed volume	0.0016 ml
Burette precision	± 0.1% (F · S)
Burette dripping time	(60 ± 10) seconds (F · S)
Power supply voltage	AC 220V ± 10% 50Hz ± 10%



TP633 Liquid Phase Corrosion Tester

Liquid phase corrosion tester is suitable for evaluating the anti-rust ability of iron parts when mineral oil with added inhibitors and turbine oil are mixed with water; It is also suitable for the determination of anti-rust ability of hydraulic oil and circulating oil. The tester can be widely used in electric power, petroleum, chemical industry, commodity inspection, scientific research and other sectors.

Functional features

- It is controlled by microcomputer and consists of constant temperature bath and electronically controlled constant temperature system. Four samples can be detected separately
- Precision platinum resistance measuring elements can achieve high-precision constant temperature control
- The stirring adopts the original imported permanent magnet motor with stable rotational speed
- The whole machine has reasonable structure, safety and convenience, and easy to operate

Technical parameters

Temperature control range	Room temperature ~ 99.9℃
Temperature control precision	±1℃
Resolution	0.01℃
Test hole	4 holes
Timing range	0 ~ 99 hours
Power supply voltage	AC 220V±10% 50Hz±10%

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TP651 Petroleum and Synthetic Liquid Anti-emulsification Tester

The petroleum and synthetic liquids anti-emulsification tester is developed according to the standard of GB/T7305 Petroleum oils and synthetic fluids water separability tester. It is suitable for measuring the ability to separate petroleum products from water, and can be widely used in electric power, petroleum, chemical industry, commodity inspection and scientific research departments.

Functional features

- It is controlled by microcomputer, and the stirring paddle lifting, stirring, temperature control, timing, etc. are automatically carried out
- Automatically switch to automatic timing state after stirring is finished
- The lifting arm lifts automatically, and the electric push rod is used to drive the lifting smoothly and quickly
- The whole machine has reasonable structure, safety and convenience Technical parameters

Technical parameters

Measurement range	Room temperature ~ 100℃
Accuracy	± 0.1℃
Stirring speed	1500 ± 15 r/min
Resolution	0.1℃
Number of test holes	4 holes
Display	5.0-inch color touchscreen display
Power supply voltage	AC 220V ± 10% 50Hz ± 10%



TP652 Foam Characterization Tester

Lubricating oil foam characteristics tester conforms to GB/T 12579, ISO 6247, ASTM D892 standards, is used to determine the foam tendency and foam stability of lubricating oil under specified conditions, and can be widely used in electric power, petroleum, chemical, commodity inspection and scientific research departments.

Functional features

- Adopt microcomputer control and LCD display
- Imported silent air pump, low noise
- Four-way flow adjustment, high and low temperature control bathtub
- PID temperature control and setting technology, more accurate temperature control
- Optional drop-in refrigerator for room temperature above 24℃

Technical parameters

Temperature control range	0℃ ~ 99.9℃
Temperature control precision	± 0.5℃
Timing method	Automatic timing, precision ± 1S
Flow meter	With regulating valve 16 ~ 160 ml/min
Air source	Self-contained air source, 3 L/min
Flow control	16 ~ 160 ml/min float flow meter, adjustable
Gas diffusion head	3000 ~ 6000 ml/min at 2.45 Kpa
Power supply voltage	AC 220V ± 10% 50Hz ± 10%

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TP653 Trace Moisture Analyzer

Fully automatic trace moisture analyzer is suitable for GB/T7600-1987 Determination of water content in transformer oils in service by coulometric method, SH/T0255-1992 *Determination of water content in Additives and Lubricating Oils Containing Additives by electricity method,* SH/T0246-1992 *Determination of water content in light petroleum products by electricity method,* accurately determines trace moisture in liquids, solids, and gases, and is used in electric power, petroleum, chemical, pharmaceutical, food and other industries. It can quickly determine the moisture content of alcohols, oils, lipids, ethers, esters, acids, alkanes, benzenes, amines, organic solvents, pesticides, phenols, pharmaceutical raw materials and other chemical, petroleum, pharmaceutical, pesticide and other products.

Functional features

- The switching constant current source electrolysis circuit is used to reduce the power consumption of the instrument
- Two methods of reagent blank current compensation and equilibrium point drift compensation were used to correct the measurement results
- Built-in 9 calculation formulas can meet the calculation of moisture content under different measurement conditions
- Convert mg/L, ppm, mg/kg, % separately or simultaneously to reduce the number of measurements and reagent consumption
- Sample volume, mass and density can be adjusted during or after the test
- 9-speed stirring speed adjustment; 9-speed electrolytic gain adjustment
- Reagent can be filled and discharged
- The liquid filling pipeline and liquid discharging pipeline are all made of PTFE Teflon, which has the characteristics of strong flexibility, acid and alkali resistance, not easy to aging and other characteristics

Technical parameters

Measurement range	3 μg ~ 100 mg		
Instrument precision	3 μg to 1 mg ± 3 μg; 0.3% for more than 1 mg (excluding injection error)		
Resolution	0.1 μg	Electrolytic current	0 ~ 400 mA
Maximum electrolytic speed	2.4 mg/min	Communication port	RS485, RS232
Communication protocol	ModBus RTU	Power supply voltage	AC 220V ± 10% 50Hz ± 10%



TP655 Density Tester

Density tester is suitable for determining crude oil, petroleum products, mixtures of petroleum products and non-petroleum products with Reid vapor pressure not exceeding 180 kPa. It can determine the density of clear, low-viscosity liquids and is also suitable for viscous liquids. It can be widely used in electric power, petroleum, chemical industry, scientific research and other departments.

Functional features

- Controlled by microcomputer, the stirring paddle automatically stirs
- The whole machine has reasonable structure, safety and convenience, and easy to operate
- PI temperature control technology, high temperature control accuracy, short constant temperature time
- Built-in lighting, good perspective, no flicker, soft light, long life
- Densities below ambient temperature and densities above ambient temperature can be measured

Technical parameters

Temperature control range	(0 ~ 100)℃ (Cooler is required below 20℃)
Resolution	0.01℃
Temperature control precision	± 0.1℃
Test hole	2 holes
Temperature control method	PI adjustment
Stirring speed	(1200 ± 12) r/min
Working power supply	220V ± 10% 50Hz ± 10%



TP656 Petroleum Product Water-soluble Acids and Alkalis Tester

The Petroleum product water-soluble acids and alkalis tester is designed and manufactured according to the requirements specified in GB/T259-1998 *Petroleum Products——Determination of Water-soluble acids and alkalis*. It can measure the water-soluble acids and water-soluble alkalis of liquid petroleum products, additives, greases, paraffin waxes and wax-containing component products. It is widely used in petrochemical, electric power, railway, scientific research and other departments.

Functional features

- The functions of the constant temperature magnetic stirrer, the electric stirrer and the constant temperature heating are integrated into one, and each function can be carried out simultaneously, Save the labor intensity of the experiment personnel, and do not need to heat and shake the sample by hand
- 24-bit A/D signal acquisition, high-precision measurement, accurate and reliable, accurate measurement results

Technical parameters

Measurement range	(0.000 ~ 14.000) pH
Indication error	± 0.02 pH
Resolution	0.001 pH
Temperature compensation range	(0 ~ 60.0)℃
Water sample temperature	(5 ~ 60)℃
Ambient temperature	5℃ ~ 45℃
Relative humidity	⩽ 85%
Temperature control range	Room temperature ~ 100℃
AC power supply voltage	AC 220V ± 10%　50Hz ± 10%



TP661 Air Release Value Tester

Air release value tester is designed and manufactured according to the requirements specified in SH/T 0308 Method for determination of air release value of lubricating oil. It can be used to determine the air release value of hydraulic oil, turbine oil and other petroleum products, and is widely used in electric power, petroleum, chemical industry, commodity inspection and scientific research departments.

Functional features

- Adopting high-precision single chip microcomputer to accurately control the temperature of two channels at the same time
- It integrates air, water constant temperature and air pressure control
- Adopting PID temperature control method, more accurate temperature control
- Oil-free silent pump with stable airflow
- With automatic water adding function, it is more convenient to use
- Automatic judgment of liquid level to prevent too low water level from damaging the instrument
- Stable performance, accurate data and good repeatability

Technical parameters

Temperature measurement range	Room temperature ~ 99.9℃
Resolution	0.1℃
Accuracy	Water bath temperature control: ⩽ ±1℃ Air temperature control : ⩽ ±5℃
Pressure regulation range	0 ~ 98 kPa
Timing precision	±1 s
Working power supply	AC 220V ± 10% 50Hz ± 10%
Printer	Thermal type, 36-character
Communication	RS232

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TP662 Distillation Range Tester

Distillation range tester is designed according to the requirements specified in GB/T 6536 Standard Test method for Distillation of Petroleum Products, is suitable for distillation determination in gasoline, aviation gasoline, jet fuel, solvents with special boiling points, naphtha, diesel oil, distillate fuel and similar petroleum products.

Functional features

- Imported photoelectric tracker to ensure the accuracy of distillation volume determination
- The temperature of the recovery chamber can be set to ensure the measurement precision
- Adopting imported compressor Danfoss (Secop), the refrigeration is fast and stable
- Automatically detect the local atmospheric pressure and automatically correct to the temperature at standard atmospheric pressure
- Temperature, volume and correlation curves are displayed during measurement
- Setting to stop the test according to the steam temperature or recovery volume
- Temperature sensor imported from Germany(Pt100)
- With manual nitrogen fire extinguishing function, avoid safety accidents caused by bursting of distillation flask

Technical parameters

Measuring range	Room temperature ~ 400℃
Resolution	0.1℃
Recovery volume range	0 ~ 100 mL
Recovery volume measurement precision	± 0.1 mL
Cold bath temperature	(0 ~ 60)℃
Recovery chamber temperature	(10 ~ 40)℃
Fire extinguishing system	Nitrogen fire extinguishing
Power supply	AC220V ± 10% 50Hz ± 10%



TP663 Lubricating Oil Oxidation Stability Tester

Lubricating oil oxidation stability tester is developed according to SH/T0193 Determination of oxidation stability for lubricating oil standard. It is suitable for measuring the separation ability of petroleum products from water, and can be widely used in electric power, petroleum, chemical industry, commodity inspection, scientific research and other departments.

Functional features

- High-precision intelligent digital temperature controller is used to control the temperature to achieve high-precision constant temperature. The heating method is equipped with auxiliary fast heating and automatic constant temperature devices
- Automatically record the data and test results during the test process, and can query historical data and pressure change curve
- The rotating device has stable rotation speed and low noise, and can carry out two groups of tests at the same time

Technical parameters

Temperature control range	Room temperature ~ 150℃
Temperature control precision	± 0.1
Heating power	1200 W
Rotary oxygen bomb	2 pieces
Pressure transmitter	High precision pressure transmitter ± 2%
Input power supply	AC220 ± 10% 50Hz ± 10%



TP671 Multifunctional Oscillator

Multifunctional oscillator conforms to GB/T1723-1998 Determination of componental contents of gases dissolved in insulating oil by gas chromatography method, GB/T7252-2001 Guide to the analysis and the diagnosis of gases dissolved in transformer oil, applied to gas oscillation degassing in gas chromatographic testing; the oscillating heating method in the quantitative determination methods of water-soluble acids; all kinds of liquids in the laboratory are heated and shaken at constant temperature and time.

Functional features

- Dual CPU microcomputer control
- If the temperature is exceeded, the heating is automatically stopped
- Instrument fault self-diagnosis function
- Fast constant temperature, good temperature control, reasonable structure, compact size

Technical parameters

Temperature measurement range	0℃ ~ 100℃
Temperature control range	Room temperature ~ 100℃
Temperature control method	Digital PID automatic control
Oscillation frequency	275 ± 3 times/min
Oscillation amplitude	35 mm
Sample number	8 pieces of 100 ml syringes; 4 pieces of 250 ml triangular flasks
Working method	4 method
	Chromatographic degassing oscillation: constant temperature 50℃ oscillate for 20 minutes; stand still for 10 minutes
	Water-soluble acid oscillation: constant temperature 75℃ Oscillate for 5 minutes; stand still for 0 minutes
	Other physical oscillations: constant temperature 0-110℃ arbitrary setting Oscillate 0-99 minutes arbitrary setting; stand still 0-99 minutes arbitrary setting
	Manually start the oscillation and manually stop the oscillation
Working voltage	AC 220V ± 10%
Power supply frequency	50Hz ± 10%



TP672 Dielectric Strength Tester

Insulating oil dielectric strength tester is developed according to GB/T 507-2002, DL/T 429, DL/T 846 standards. It is widely used in electric power, petroleum, chemical and other industries, and in high-voltage electrical equipment such as transformers, oil circuit breakers, oil-filled cables, power capacitors and oil bushings; During operation, the performance of insulating oil will gradually deteriorate due to the effects of oxygen, high temperature, high humidity, sunlight, strong electric field and impurities, so that it cannot fully play its insulating role, so that the insulating oil must be tested regularly to identify whether the performance has deteriorated. Therefore, the quality of insulating oil is closely related to the breakdown voltage.

Functional features

- A series of operations such as boost, zero return, stirring, display, calculation, printing are automatically completed
- Automatic sine wave generating device and stepless voltage regulating mode are used to pressurize, so that the test voltage is more stable and reliable
- Two pressurization speeds of 2 KV/S and 3 KV/S are available for more adaptability
- Data is automatically stored and can be retrieved and printed at any time
- Adopt advanced dry-type transformer combination with compact size, light weight, easy to use

Technical parameters

Display	Color touchscreen LCD
Measurement range	(0 ~ 80) kV or (0 ~ 100) kV
Boost speed	(0.5 ~ 5.0) KV/S adjustable
Accuracy	2%
Resolution	0.1 KV
Voltage distortion rate	< 3%
Booster capacity	1.5 KVA
Number of tests	6 times (1 ~ 9 times adjustable)
Number of test cups	3 cups
Power supply voltage	AC 220V ± 10% 50Hz ± 10%

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TP673 Dielectric Loss and Volume Resistivity Tester

The insulating oil dielectric loss and volume resistivity tester of insulating oil is developed according to GB/T5654-2007 insulating liquids——measurement of relative permittivity, dielectric dissipation factor. It is widely used in electric power, petroleum, chemical and other industries, and is used in high-voltage electrical equipment such as transformers, oil circuit breakers, oil-filled cables, power capacitors and oil sleeves. During operation, the performance of insulating oil will gradually deteriorate due to the effects of oxygen, high temperature, high humidity, sunlight, strong electric field and impurities, so that it cannot fully play its insulating role, so that the insulating oil must be tested regularly to identify whether the performance has deteriorated. Therefore, the quality of insulating oil is closely related to the breakdown voltage.

Functional features

- Adopt intermediate frequency induction heating, room temperature is heated to temperature control (90℃) and constant temperature is automatically measured
- Measure oil dielectric loss and volume resistivity simultaneously or choose one
- Automatically display measurement results and print and save data
- It has functions of over-voltage, over-current, short-circuit protection, high-voltage indication, and alarm prompt

Technical parameters

Measurement range	Capacitance 5.0 pF ~ 200.0 pF; The relative permittivity 1.000 ~ 30.000 Dielectric loss factor 0.00001 ~ 100; DC resistivity 2.5MΩm ~ 20TΩm
Measurement precision	Capacitance ± (1% reading +0.5 pF);Relative permittivity ±1% reading; Dielectric loss factor ± (1% reading +0.02%); DC resistivity ±10% reading
Resolution	Capacitance 0.01 pF; Relative permittivity 0.001;Dielectric loss factor 0.00001
Temperature measurement range	(0 ~ 125)℃
Temperature measurement error	±0.5℃
AC test voltage	(500 ~ 2200)V continuously adjustable, frequency 50Hz
DC test voltage	(0 ~ 500)V continuously adjustable
Power supply voltage	AC 220V±10% 50Hz±10%



TP681 Interfacial Tension Tester

The fully automatic interfacial tension tester is designed and manufactured according to the requirements specified in GB/T 6541-1986 Petroleum products - mineral oils -Determination of interfacial tension of oil against water - Ring method. Measure the surface tension of various liquids (liquid-gas phase interface) and the interfacial tension of liquids (liquid-liquid phase interface). This method has the advantages of simple operation and high accuracy, and is widely used. It is widely used in electric power, petroleum, chemical, pharmaceutical, food, teaching and other industries.

Functional features

- Adopting original fast-response electromagnetic force balance sensor improve the measurement accuracy and linearity
- The instrument calibration only needs to be calibrated one point, which solves the problem that the previous generation of sensors requires multi-point calibration. No need to adjust zero Potentiometers and full-scale potentiometers
- Real-time display of equivalent tension value, current weight (can be weighed as electronic balance)
- Maximum storage of 255 time-stamped history records
- Built-in high-speed thermal micro printer, beautiful and fast printing, with offline printing function

Technical parameters

Full range	Insulating oil 5 ~ 100 mN/m; Other petroleum products 5 ~ 200 mN/m
Accuracy	0.5% F.S
Resolution	0.1 mN/m
Sensitivity	0.1 mN/m
Display mode	LCD
Printer	Thermal type, 36-character
Speed of movement	0.3 ~ 0.4 mm/S
Power supply voltage	AC 220V ± 10% 50Hz ± 10%



TP725 Kinematic Viscosity Tester

The fully automatic kinematic viscosity tester is designed and manufactured according to the requirements specified in GB/T265 Petroleum products - Determination of kinematic viscosity and calculation of dynamic viscosity. The instrument measures the kinematic viscosity of transparent and opaque liquids including crude oil, light and heavy fuel oil, lubricating oil, additives and waste oil. It is used in electric power, petroleum, chemical industry, commodity inspection, scientific research and other sectors.

Functional features

- Simultaneous determination of the kinematic viscosity of two samples, automatically store and print test results
- Infrared liquid level detection is not interfered by indoor light and lighting, and the liquid level detection position can be adjusted flexibly
- Advanced optical waste liquid monitoring function to prevent waste liquid from flowing into the suction filter pump and damaging it
- Adopting the combination of imported temperature controller and imported temperature sensor for temperature control, and the temperature control accuracy is high
- Equipped with an overflow port to prevent excessive oil from overflowing into the machine
- Dual CPU microcomputer control with automatic fault diagnosis program
- Additional refrigeration equipment can be added according to the user's needs

Technical parameters

Temperature control range	20 ~ 100℃ (20℃ - room temperature should be equipped with optional circulating refrigerator)
Temperature control precision	± 0.01℃
Resolution	0.01℃
Viscosity resolution	0.00001 mm^2/S
Test hole	2 holes
Temperature sensor	Imported stainless steel PT100 temperature probe
Heating method	Electric heating unit, maximum heating power 1500 W, PID control
Temperature calibration	6-point calibration
Data storage	100 sets of test results
Power supply voltage	AC 220V ± 10% 50Hz ± 10%



TP737 Micro Carbon Residual Tester

The micro carbon residue tester is designed and manufactured according to the requirements specified in GB/T 17144 Petroleum Products-Determination of Carbon Residue-Micro Method. It is used in electric power, petroleum, chemical industry, commodity inspection, scientific research and other departments, and it is also used in the determination of carbon residual content of petroleum products.

Functional features

- Automatic control of temperature rise and flow rate, real-time display of test progress
- Adopts embedded operating system, stable and reliable work
- Reasonable design of high-temperature greenhouse, safe and stable temperature control
- Editable input sample tube and specimen mass
- The carbon residue value is automatically calculated according to the operation
- Store 100 sets of historical data for easy query
- Historical data can be queried based on date

Technical parameters

Measurement range	500℃
Resolution	0.1℃
Precision	±2℃
Heating speed	(10 ~ 15)℃ /min
Temperature sensing element	K-type thermocouple
Flow meter	(100 ~ 1000) ml/min
Operating environment	(10 ~ 40)℃
Power	<2 KW
Power supply	AC 220V±10% 50Hz±10%



TP755 Density Tester

The fully automatic density meter is suitable for NB/SH/T 0870-2013 Determination of dynamic viscosity and density of petroleum products and calculation of kinematic viscosity Stabinger viscometer method DB13/T 1231-2010 Density Determination Method for Chemical Products Intelligent Liquid Density Meter Method, SH/T0604-2000 Crude petroleum and petroleum products - Determination of density - Oscillating U-tube method It can be widely used to measure the density of various liquids in various fields such as chemical industry, pharmaceuticals, petroleum, food and beverage processing. It can also be used in quantitative packaging testing of quality and technical supervision systems and laboratories of colleges and universities.

Functional features

- Double-gallbladder constant temperature is adopted to ensure that the temperature in the constant temperature bath is stable within the range of 20℃ ± 0.1℃
- Directly display the density and temperature values of the liquid
- Automatic sampling makes the test more convenient and reduces the workload
- The pipelines in direct contact with the liquid are imported acid and alkali resistant pipes to ensure that the instrument can measure acid and alkali solutions
- It has a calibration function. When the instrument is not used for a long time and drifts, pure water can be used as a standard to calibrate the instrument

Technical parameters

Measurement range	Density 0 ~ 1999.9 kg/m^3
Alcohol content	0 ~ 100%
Measurement precision	± 0.5 kg/m3 (± 0.0005 g/cm^3)
Thermostatic control	20℃ ± 0.1℃
Sampling quantity	2 mL/time (automatic injection and manual injection)
Data storage	80 sets
Power supply voltage	AC 220V ± 10% 50Hz ± 10%



TP791 Oil Contamination Tester

The fully automatic oil contamination tester is developed specifically for the inspection of contamination levels in oil according to GB/T 18854, ISO11171, DL/T 432, GJB 420B, GJB 380.4 A, NAS 1638, ISO4406 and other standards. It can be widely used to detect solid particle contamination for hydraulic oil, lubricating oil, transformer oil (insulating oil), turbine oil (turbine oil), gear oil, engine oil, aviation kerosene, water-based hydraulic oil and other oils in aviation, aerospace, electric power, petroleum, chemical industry, transportation, ports, metallurgy, machinery, automobile manufacturing and other fields, and insoluble particle detection of organic liquids and polymer solutions.

Functional features

- The photoresist (shading) method counting principle specified by the International Hydraulic Standards Committee is adopted
- High precision laser sensor, wide test range, stable performance, low noise and high resolution
- Adopting precision syringe pump sampling method, the sampling volume can be set by yourself, the sampling speed is stable, and the sampling accuracy is high
- A sampling system combining positive and negative pressure is adopted, which can realize sample degassing, and is suitable for testing samples of different viscosity
- Built-in multiple calibration curves, compatible with all commonly used domestic and foreign standards for calibration
- Built-in NAS1638, ISO 4406, GJB-420B, SAE4059F, DL/T432, GB/T14039 and Г ОСТ 17216 and other commonly used standards, support custom standard testing, and set required standards according to needs

Technical parameters

Measurement range	0.8 μm ~ 600 μm (depending on selected sensor)		
Measurement channel	16 channels, arbitrary particle size setting (with in selected calibration curve particle size range)		
Sampling volume	(0.2 ~ 1000) ml	Sampling precision	Better than ± 0.5%
Sampling speed	5 ml/min ~ 80 ml/min	Resolution	<10%
Coincident error limit	12000-24000 capsules/ml depending on selected sensor		
Repeatability	RSD <2%	Test sample viscosity	⩽ 650 cst
Data output	Built-in printer and RS232 interface		
Power supply	AC220V ± 10% 50Hz ± 10%		



TP792 Oil Contamination Tester

Portable oil contamination tester is developed specifically for the inspection of contamination levels in oil according to GB/T 18854, ISO11171, DL/T 432, GJB 420B, GJB 380.4 A, NAS 1638, ISO4406 and other standards. It can be widely used in It can be widely used to detect solid particle contamination for hydraulic oil, lubricating oil, transformer oil (insulating oil), turbine oil (turbine oil), gear oil, engine oil, aviation kerosene, water-based hydraulic oil and other oils in aviation, aerospace, electric power, petroleum, chemical industry, transportation, ports, metallurgy, machinery, automobile manufacturing and other fields, and insoluble particle detection of organic liquids and polymer solutions.

Functional features

- Adopting the principle of photoresist method (shading method), it has the advantages of fast detection speed, strong anti-interference, high precision and good repeatability
- High-precision sensors ensure high resolution force and accuracy
- Precision metering and sampling system to achieve constant sampling speed and precise control of sampling volume
- Three calibration curves (ACFTD calibration curve, ISOMTD calibration curve, ROST calibration curve) can be stored at the same time, and can be easily switched to reduce conversion errors
- Built-in particle contamination level standards of NAS1638, ISO4406, GJB420B, GJB420A, AS4059E, AS4059F, GB/T14039, SAE749D, ROCT17216, JTS-005 and so on, and can be built into required standard according to user requirements
- Built-in printer can directly print out the test report; numbers, letters and Chinese characters is input when printing

Technical parameters

Light source	Semiconductor laser	Particle size range	1 μm ~ 400 μm
Sensitivity	1 μm (ISO4402) or 4 μm (c) (GB/T18854, ISO11171)		
Detection channel	32 pieces, the particle size can be arbitrarily set		
Sampling method	Offline or Online	Test Volume	10 ml/time
Sampling volume precision	Better than ±3%	Detection time	30 S/time
Rinse volume	Can be set between 0ml and 90ml (1mL interval)		
Power supply	100 V ~ 265 VAC or 24 VDC or optional external lithium battery		



TP825 Kinematic Viscosity Tester

The fully automatic kinematic viscosity tester is designed and manufactured according to the requirements specified in ASTM D7279-2018 Standard Test Method for Kinematic Viscosity of Transparent and Opaque Liquids by Automated Houillon Viscometer and NB SH/T 0956-2017 Standard Test Method for Kinematic Viscosity of Transparent and Opaque Liquids by Automated folding tube type Viscometer. The instrument measures the kinematic viscosity of transparent and opaque liquids including crude oil, light and heavy fuel oil, lubricating oil, additives and waste oil. It is used in electric power, petroleum, chemical industry, commodity inspection, scientific research and other departments.

Functional features

- Low oil sample consumption, fast detection speed, low solvent consumption, high accuracy
- With automatic diagnostic fault program
- Stainless steel bath box, oil discharge port, convenient oil discharge
- The kinematic viscosity value of four kinds of samples can be measured asynchronously at the same time, and the results can be automatically printed
- Adopting motor stirring reduces the temperature decreasing gradient in the bathtub, makes the oil temperature uniform, and improves the accuracy of the experimental results
- The upper part of the bathtub is equipped with a new energy-saving lighting lamp, so that the operator can clearly observe the test process and facilitate data observation

Technical parameters

Temperature control range	Room temperature ~ 100℃
Temperature control precision	±0.01℃
Resolution	0.01℃
Measurement range	(0.75 ~ 6800) mm^2/s
Viscosity resolution	0.0001 mm^2/s
Oil sample consumption	0.1 ~ 2.0 mL
Viscometer type	Folding tube type (Hou's)
Test hole	4 holes
Data output	RS232
Power supply voltage	AC 220V±10% 50Hz±10%

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TP6621 Distillation Range Tester

Double-tube distillation range tester is suitable for GB/T6536-1997, ASTMD86, GB/T255-77, GB/T7534-1987, GB3146-82 and other standards, can also measure the boiling range of liquid organic matte, is suitable for distillation determination in gasoline, aviation gasoline, jet fuel, solvents with special boiling points, naphtha, diesel oil, distillate fuel and similar petroleum products .

Functional features

- Imported photoelectric tracker to ensure the accuracy of distillation volume determination
- The temperature of the recovery chamber can be set to ensure the measurement accuracy
- Automatically detect the local atmospheric pressure and automatically correct to the temperature at standard atmospheric pressure
- Temperature, volume and correlation curves are displayed during measurement
- Setting to stop the test according to the steam temperature or recovery volume
- Temperature sensor imported from Germany (Pt100)
- With manual nitrogen fire extinguishing function, avoid safety accidents caused by bursting of distillation flask

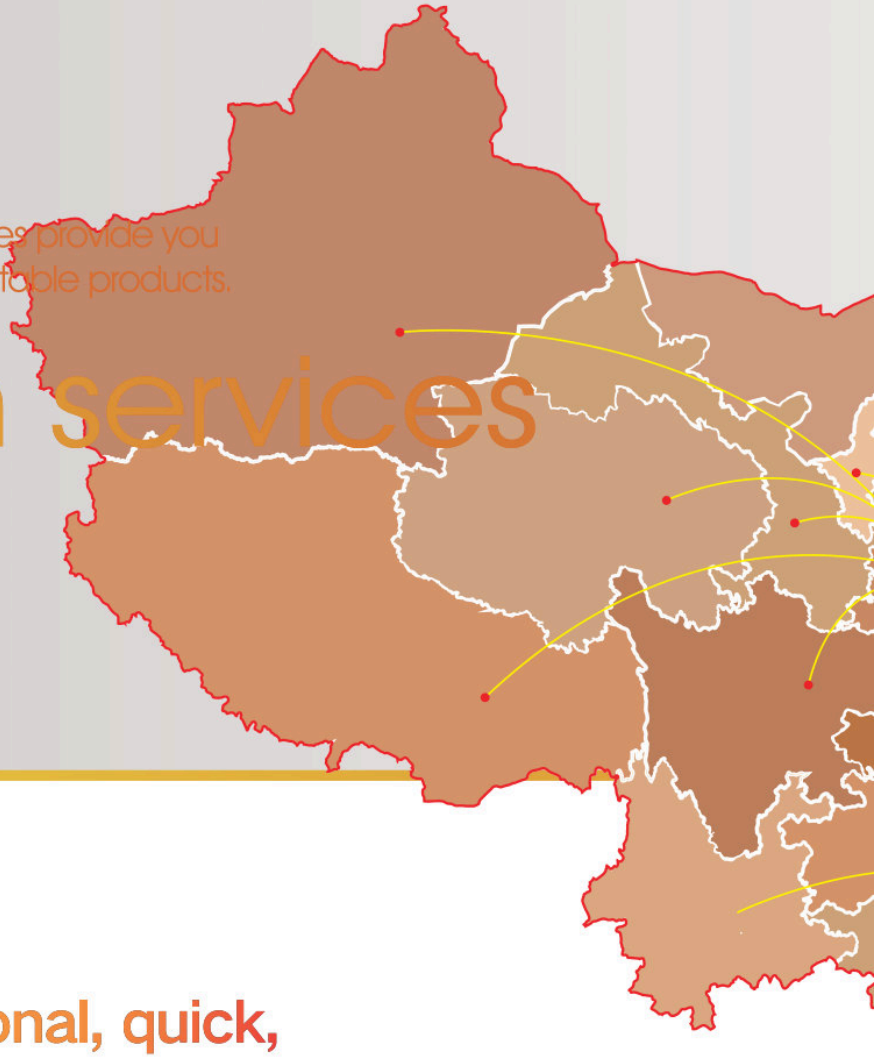
Technical parameters

Measuring range	Room temperature ~ 400℃
Resolution	0.1℃
Recovery volume range	0 ~ 100 mL
Recovery volume measurement precision	± 0.1 mL
Fire extinguishing system	Nitrogen fire extinguishing
Power supply	AC220V ± 10% 50Hz ± 10%

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Intention services



"Professional, quick, and enthusiastic" service, ensuring your peace of mind, convenience, and comfort.

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